	Application No.	Applicant(s)
Nation of Allowahility	10/086,334	MOTOI ET AL.
Notice of Allowability	Examiner	Art Unit
	Dalei Dong	2879
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to Amendment filed August 24, 2004.		
2. ☑ The allowed claim(s) is/are <u>15-18 and 20-22</u> .		
3. 🗵 The drawings filed on 04 March 2002 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Of		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summary Paper No./Mail Dat 8), 7. Examiner's Amendn	

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DETAILED ACTION

Allowable Subject Matter

1. Claims 15-18 and 20-22 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Regarding to claim 15, prior art of record taken alone or in combination fails to teach or suggest the first carbon film and a second carbon film are disposed opposition to each other across a gap and wherein the surface of the substrate is concaved at a section within the gap in order to obtain a configuration of a surface conduction electron-emitting device capable of implementing good electron emission characteristics and high-luminance display over a long time and an electron source using the device, and an image-forming apparatus using it.

Regarding to claim 16, prior art of record taken alone or in combination fails to teach or suggest the first carbon film and a second carbon film are disposed opposition to each other across a gap and wherein the surface of the substrate is concaved at a section within the gap in order to obtain a configuration of a surface conduction electron-emitting device capable of implementing good electron emission characteristics and high-luminance display over a long time and an electron source using the device, and an image-forming apparatus using it.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following prior art are cited to further show the state of the art of composition of an electron-emitting device.

- U.S. Patent No. 6,586,872 to Shibata.
- U.S. Patent No. 6,595,820 to Hsu.
- U.S. Patent No. 6,642,649 to Yamamoto.
- U.S. Patent No. 6,680,562 to McGinn.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalei Dong whose telephone number is (571)272-2370. The examiner can normally be reached on 8 A.M. to 5 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on (571)272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D.D.

September 23, 2004

Joseph Williams Primary Examiner Art Unit 2879

Joseph William

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